

APPENDIX B

SELECT TABLES AND FIGURES FROM PRIOR REPORTS

DATA GAP ANALYSIS REPORT

TABLE 2

Summary of Potential/Known Sources of Contamination at the Former FWEC Facility Property

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Text and Figure 3 Identification Key	Potential/Known Source of Contamination	Physical Description	Summary of Findings	Regulatory Status	Recommendations
1a	Former Vapor Degreaser Area	12-foot by 12-foot by 12-foot sealed vapor degreasing unit.	TCE concentrations in soil samples: 0.0024 to 29 mg/kg in surface soil and 0.006 to 1,900 mg/kg in subsurface soil. Maximum TCE concentration in groundwater samples is 180,000 µg/l.	IRM consisting of a groundwater extraction and treatment system currently addresses the TCE concentrations in the groundwater.	Further investigate during RI.
1b	Former PCB Spill Area	Electrical transformer in the main bay of the Main Building leaked Pyranol and the estimated area affected by the spill was 30 feet by 70 feet and included an area along the interior railroad tracks.	The spill was reported, cleaned, and waste was disposed accordingly. Concrete core samples and soil samples were collected from the area of the PCB oil spill and elevated levels of PCBs were detected. Concrete and soil was excavated and disposed of off-site. Post-excavation PCB samples ranged in concentrations from below the laboratory detection limit to 9.4 mg/kg.	Administratively closed by EPA on 8/04/1989.	No further RI activities recommended.
1c	Former Hydrotesting Sump	Located in the northeastern corner of the Main Building and consisted of an underground cylindrical sump 10 feet in diameter and approximately 20 feet in depth.	Oil and water remaining in the hydrotesting sump were sampled, pumped out, and disposed as non-hazardous waste, accordingly. The water was removed by vacuum truck and absorbent material was used to remove the residual liquids. The spent absorbent material was removed and drummed for disposal, and the sump was steam cleaned.	Remediation approved during site visit by EPA and PADER on 7/11/89. Administratively closed by EPA on 8/04/1989.	No further RI activities recommended.
1d	Former Waste Oil Pits	Twenty-two machine pits were located throughout the Main Building.	The contents of the waste oil pits were found to contain non-hazardous waste oil and water compatible for bulk disposal. Sludge and other solid debris were removed and disposed off-site. The waste pits were then steam cleaned and capped.	Remediation approved during site visit by EPA and PADER on 7/11/89. Administratively closed by EPA on 8/04/1989.	No further RI activities recommended.
1e	Former North Soil Area	Located along the north side of the Main Building near the northern end of the Main Building.	Low concentrations of VOCs ranging from below detection limits to 0.2 mg/kg were detected in the soil samples. None of the concentrations detected were above EPA RSLs or PADEP Act 2 MSCs.	Administratively closed by EPA on 9/05/1989.	No further RI activities recommended.
1f	Former Baghouse Waste	Approximately five cubic yards of black sand blasting media located in the baghouse.	Composite samples were collected and submitted for toxicity waste characterization and asbestos analysis by PLM. According to EPA's 1989 correspondence, the “baghouse dust is not a hazardous waste or substance” and can be considered as only a solid waste.	Administratively closed by EPA on 9/05/1989.	No further RI activities recommended.

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1g	Former Potential ACM Waste	Waste firebrick located near the baghouse and waste siding materials located along the exterior south side of the main building.	No asbestos fibers were detected in samples of the firebrick. The waste firebrick was removed from the property and disposed. The waste siding material was characterized as a non-friable asbestos-containing material (ACM) and disposed.	The waste firebrick and siding material was removed from the property and disposed offsite.	No further RI activities recommended.
1h	Former Wastewater Treatment System	Located at the northwestern corner of the former FWEC Facility property and consisted of a clarifier and retention/polishing pond. The clarifier was a steel vessel approximately 20 feet in diameter and approximately 7.5 feet deep. The retention/ polishing pond was a rectangular shaped earthen depression measuring approximately 140 feet long by 48 feet wide by 3 feet deep.	Surface water samples from the retention/polishing pond had metals and cyanide above EPA Region III BTAG Freshwater Screening Benchmarks. In general, sediments at the bottom of the pond had a petroleum odor and were found to be above EPA Region III BTAG Freshwater Sediment Screening Benchmarks for select metals, PAHs and PCBs.	The clarifier sludges were dewatered and removed in 1992 and the clarifier was steam cleaned and removed.	Additional RI activities to obtain current contaminant data to evaluate the potential exposure media.

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Text and Figure 3 Identification Key	Potential/Known Source of Contamination	Physical Description	Summary of Findings	Regulatory Status	Recommendations
1i	Former USTs	Three 30,000-gallon fuel oil USTs located east-southeast of the Finish Paint Building; two fuel oil USTs (1000- and 10,000-gallon) located north and west of the X-Ray Building; and one 500-gallon gasoline UST located west of the southeastern corner of the Main Building.	Low levels of PAHs were detected in soils below the 1,000-gallon fuel oil UST and the 10,000-gallon fuel oil UST near the X-Ray Building. The concentrations of constituents detected in all of the soil samples collected are below the EPA RSLs and PADEP Act 2 MSCs.	There were no detections above EPA RSLs or PADEP Act 2 MSCs and no potential exposures exist related to the former USTs.	No further RI activities recommended.
1j	Former Open Area West of the Main Building	The open area located northwest of the Main Building, beyond the parking lot.	Soil samples collected from this area contained generally low levels of PAHs, such as fluoranthrene and phenanthrene, below EPA Industrial RSLs. The concentrations of arsenic detected in surface and subsurface soil samples are above the EPA Industrial RSL. The maximum arsenic concentration detected was 8.7 mg/kg compared to the EPA Industrial RSL of 1.6 mg/kg. However, the maximum arsenic detection is consistent with both national and regional background levels.	There are no potential sources and/or potential exposure pathways at the former Open Area West of the Main Building.	No further RI activities recommended.

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1k	Former PCB Transformers and Former Transformer Area	Located within the Main Building. Two were situated on elevated platforms in the main bay, and a third was located in the fabricated shop area.	Soil was sampled below two areas of oil-stained gravel at the transformer area south of the Main Building and low levels of aroclor-1260 were detected in the soil samples. The maximum concentration was 0.76 mg/kg detected in one sample, slightly above the EPA Industrial RSL of 0.74 mg/kg.	The PCB transformers are no longer present at the site and no potential exposures to the transformers exist based on the analytical data, the low mobility of PCBs, and the depth to groundwater (approximately 30 feet bgs).	No further RI activities recommended.
1l	Former Shot Blast Area	Also identified as a “Disposal Area,” the area is located to the northwest of the Main Building near the location of MW-1.	Investigations in the Open Area West of the Main Building, which open area is adjacent to the former Shot Blast Area, as well as data collected from MW-1 and CH-9, indicate there were no impacts to the former Shot Blast Area. Further, AGI found that no spent media was present.	AGI concluded there were no impacts to the soils or groundwater in the area adjacent to the former Shot Blast Area based on the investigations conducted in the Open Area West of the Main Building and the fact that they identified no spent media in the area.	Site reconnaissance activities planned to occur early in the RI will verify that no evidence of environmental concern, such as staining and stressed vegetation, exist in this area and that no sampling activities are needed to address this area.

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Text and Figure 3 Identification Key	Potential/Known Source of Contamination	Physical Description	Summary of Findings	Regulatory Status	Recommendations
1m	Former Expended Waste Area	Also identified as a “Disposal Area,” this area is located southeast of the main plant area.	No “expended materials and/or products” were observed at this area by AGI.	No potential exposures existed related to the former Expended Waste Area as there was no evidence of expended materials or products.	Site reconnaissance activities planned to occur early in the RI will verify that no evidence of environmental concern, such as staining and stressed vegetation, exist in this area and that no sampling activities are needed to address this area.
1n	Area Near Former Finish Paint Building and Buildings located east of the Finish Paint Building (e.g., Solvent Building and Paint Storage Building)	Several smaller buildings (Solvent Building and Paint Storage Building) were present to the east of the Finish Paint Building and southwest of the developed area of the Main Building.	Groundwater samples collected from MW-7 and MW-7S contain elevated concentrations of chlorinated VOCs and the concentrations of these chlorinated VOCs are generally not observed in groundwater samples collected from monitoring wells near the former vapor degreaser.		Additional RI activities are recommended to evaluate the elevated concentrations of chlorinated VOCs detected in groundwater at this area.

RI/FS WORK PLAN

FIGURE 3-1

Potential Exploratory Borings/Surface Geophysics Survey Transect/Detailed Site
Reconnaissance Locations – Former FWEC Facility Property

FIGURE 3-2

Potential Soil Boring, Monitoring Well, and Surface Geophysics Transect Locations –
Surrounding Industrial Properties

FIGURE 3-3

Potential Soil Boring, Monitoring Well, and Surface Geophysics Transect Locations – Affected
Area

FIGURE 3-11

Quantile Plot of TCE Detected in Ground Water

FIGURE 3-12

Geographic Area Evaluation

FIGURE 3-13

Potential Vapor Intrusion Evaluation Locations



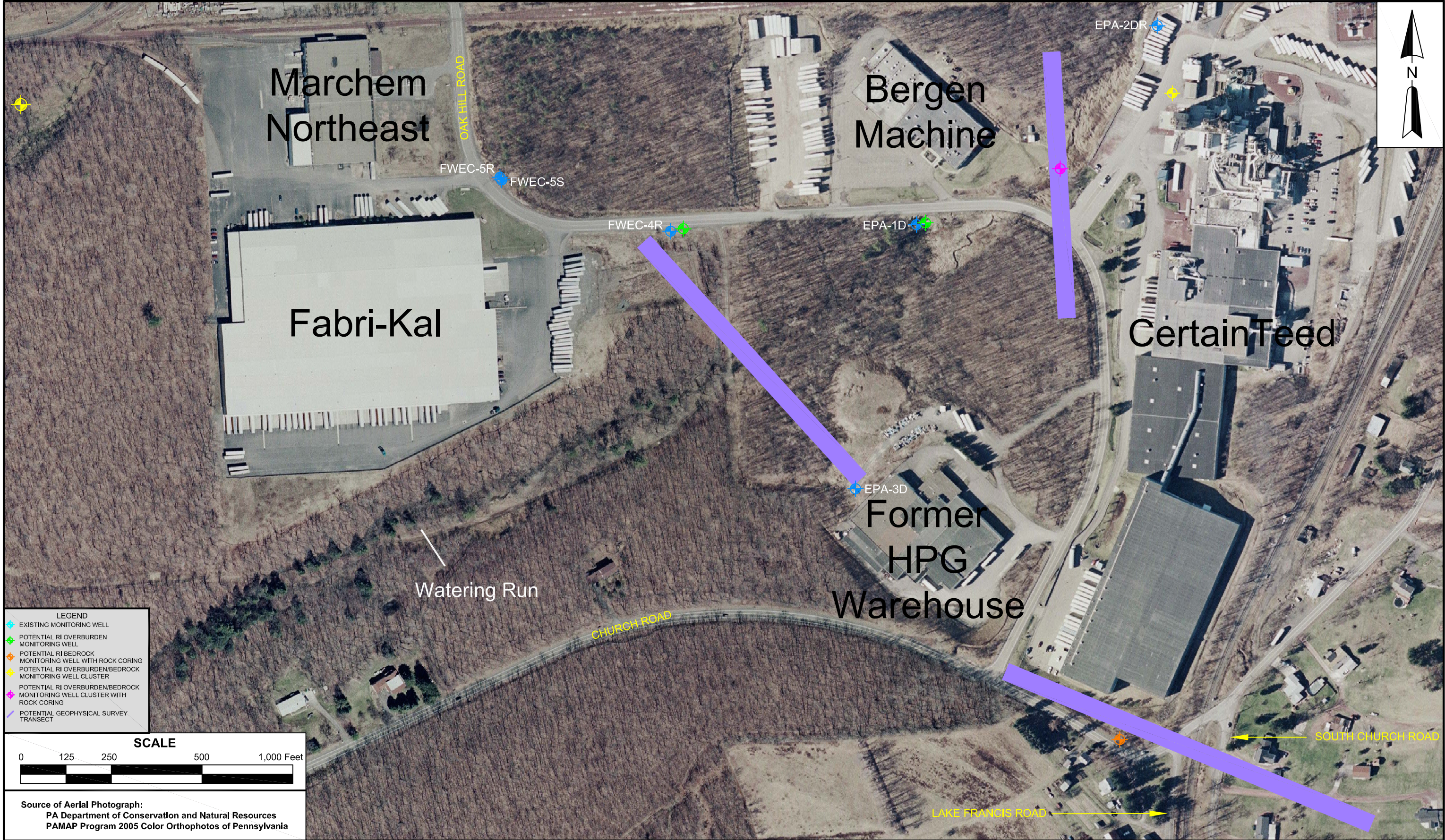
Source of Aerial Photograph:
PA Department of Conservation and Natural Resources
PAMAP Program 2005 Color Orthophotos of Pennsylvania

TETRA TECH EC, INC.

TITLE:
Potential Exploratory Borings/Surface Geophysics Survey Transect/
Detailed Site Reconnaissance Locations – Former FWEC Facility Property
FWEC/Church Road TCE Site, Mountain Top, Pennsylvania

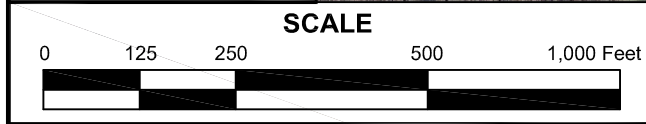
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CHKD:	LH	REV.:	0
DES.:	MK	APPD:	LHH

PROJECT NO.:	106-8706
FIGURE NO.:	3-1




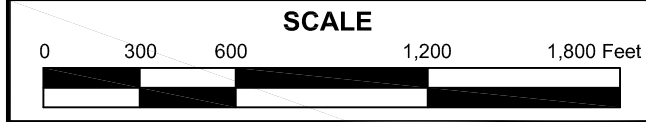
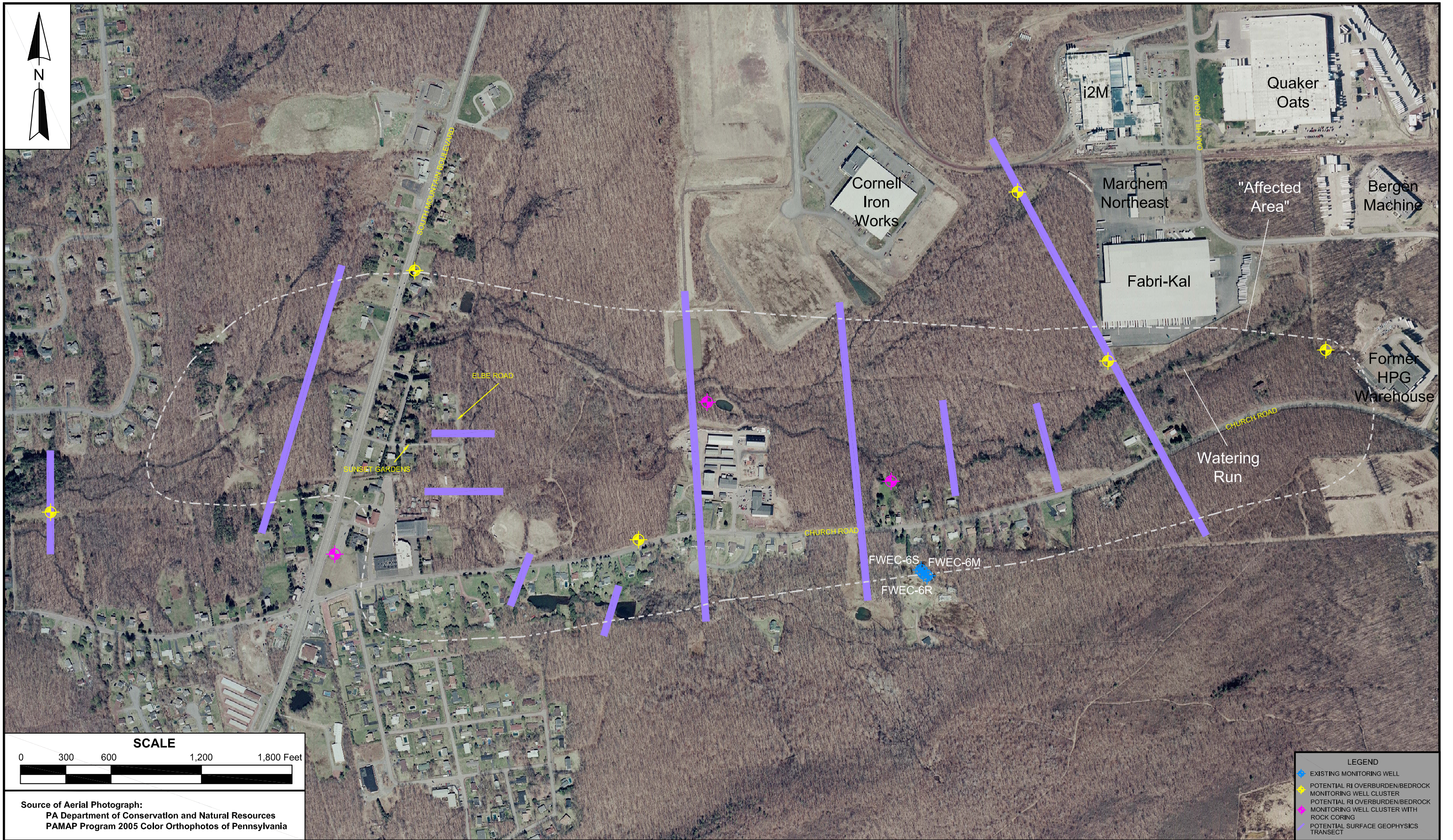
LEGEND

- EXISTING MONITORING WELL
- POTENTIAL RI OVERBURDEN MONITORING WELL
- POTENTIAL RI BEDROCK MONITORING WELL WITH ROCK CORING
- POTENTIAL RI OVERBURDEN/BEDROCK MONITORING WELL CLUSTER
- POTENTIAL RI OVERBURDEN/BEDROCK MONITORING WELL CLUSTER WITH ROCK CORING
- POTENTIAL GEOPHYSICAL SURVEY TRANSECT



Source of Aerial Photograph:
PA Department of Conservation and Natural Resources
PAMAP Program 2005 Color Orthophotos of Pennsylvania

 TETRA TECH EC, INC.	TITLE: Potential Soil Boring, Monitoring Well, and Surface Geophysics Transect Locations – Surrounding Industrial Properties FWEC/Church Road TCE Site Mountain Top, Pennsylvania	DWN.: LC	DATE: 12/11/09	PROJECT NO.: 106-8706
		CHKD.: LH	REV.: 0	
		DES.: MK	APPD.: LHH	FIGURE NO.: 3-2



Source of Aerial Photograph:
PA Department of Conservation and Natural Resources
PAMAP Program 2005 Color Orthophotos of Pennsylvania

LEGEND	
	EXISTING MONITORING WELL
	POTENTIAL RI OVERBURDEN/BEDROCK MONITORING WELL CLUSTER
	POTENTIAL RI OVERBURDEN/BEDROCK MONITORING WELL CLUSTER WITH ROCK CORING
	POTENTIAL SURFACE GEOPHYSICS TRANSECT


 TETRA TECH EC, INC.	TITLE: Potential Soil Boring, Monitoring Well, and Surface Geophysics Transect Locations – Affected Area FWEC/Church Road TCE Site Mountain Top, Pennsylvania	DWN.: LC	DATE: 11/16/09	PROJECT NO.: 106-8706
		CHKD.: LH	REV.: 0	
		DES.: MK	APPD.: LHH	FIGURE NO.: 3-3

Figure 3-11
Quantile Plot of TCE Detected in Ground Water
FWEC/Church Road TCE Site, Mountain Top, Pennsylvania

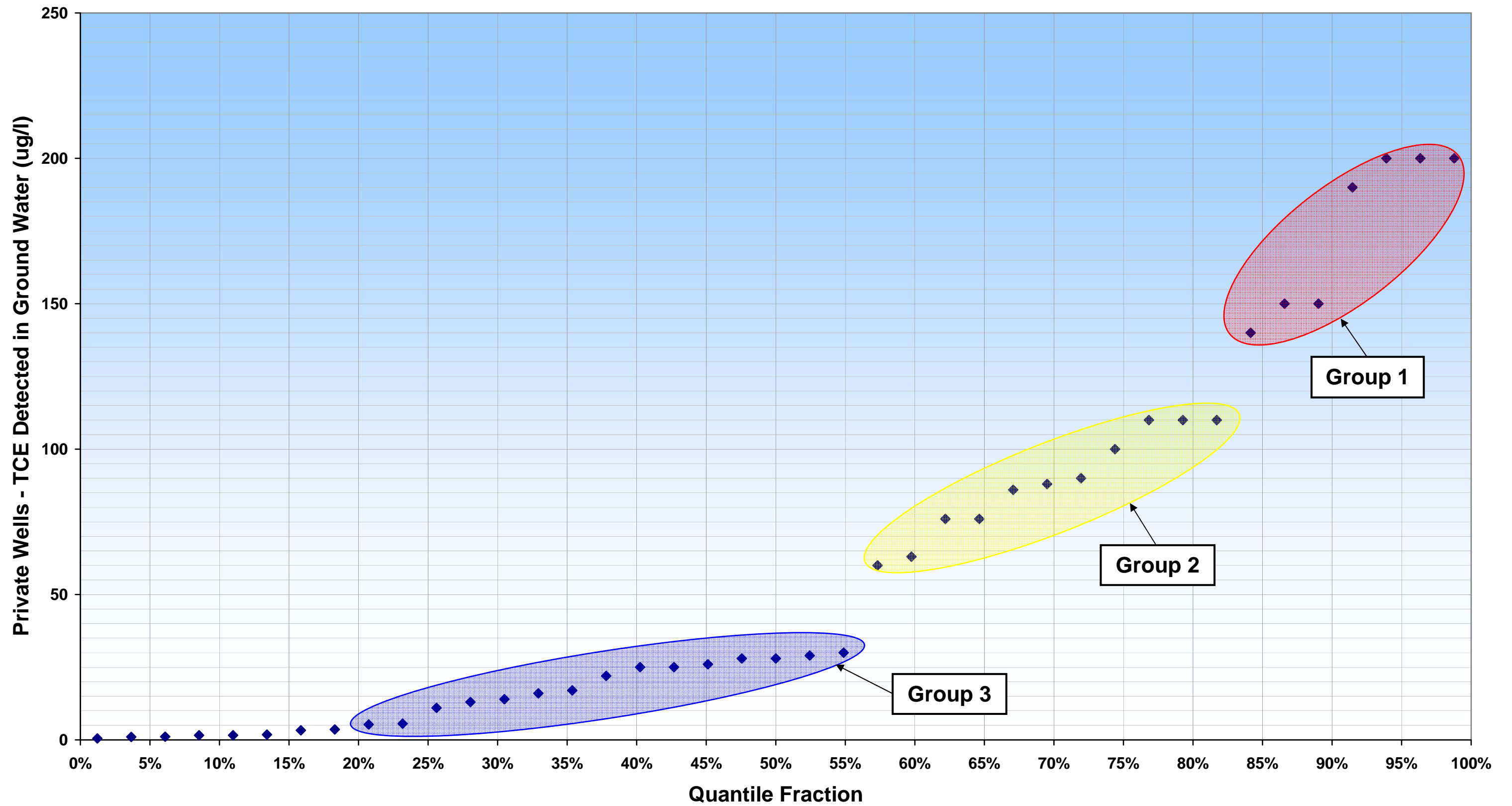
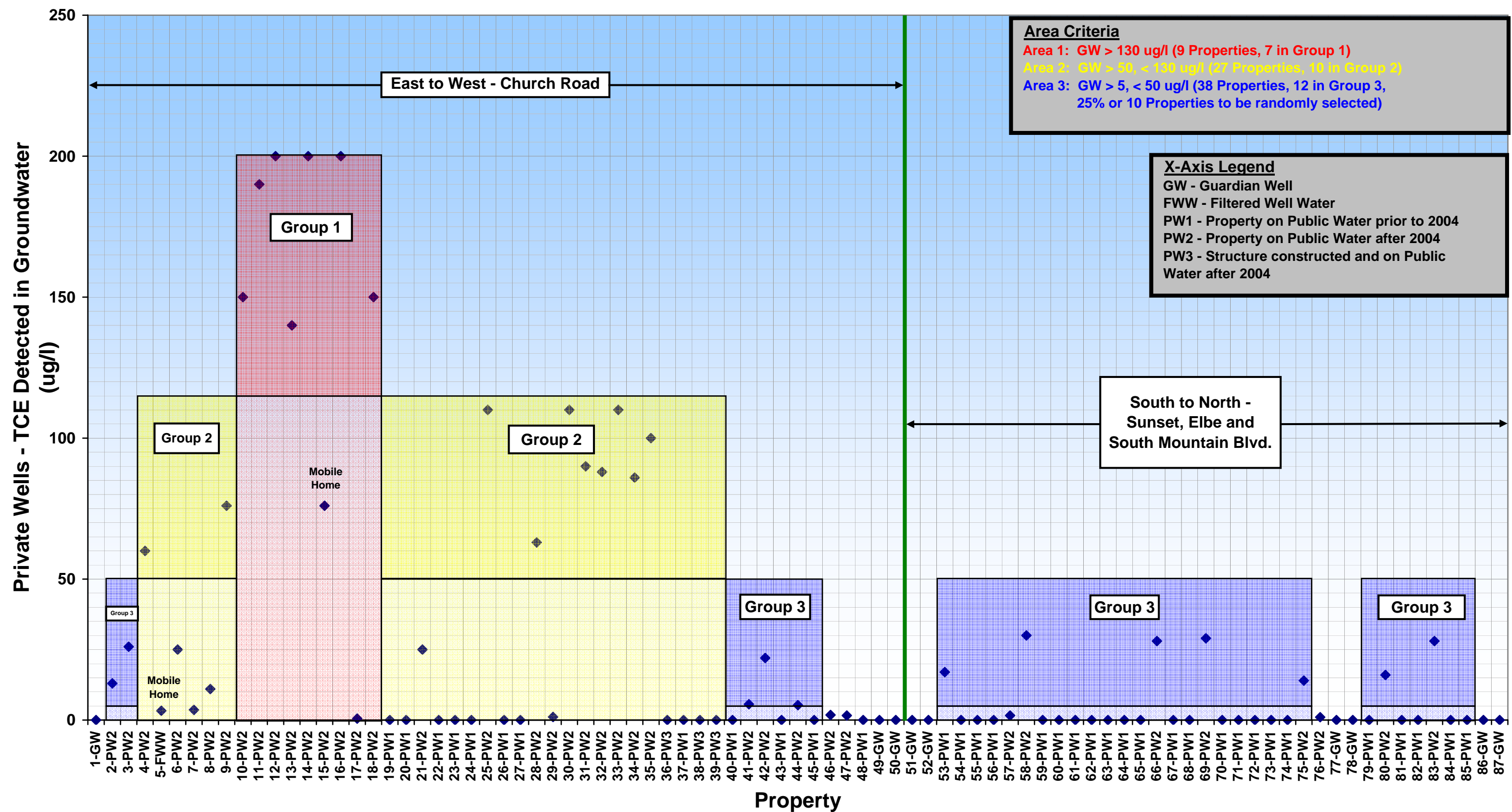
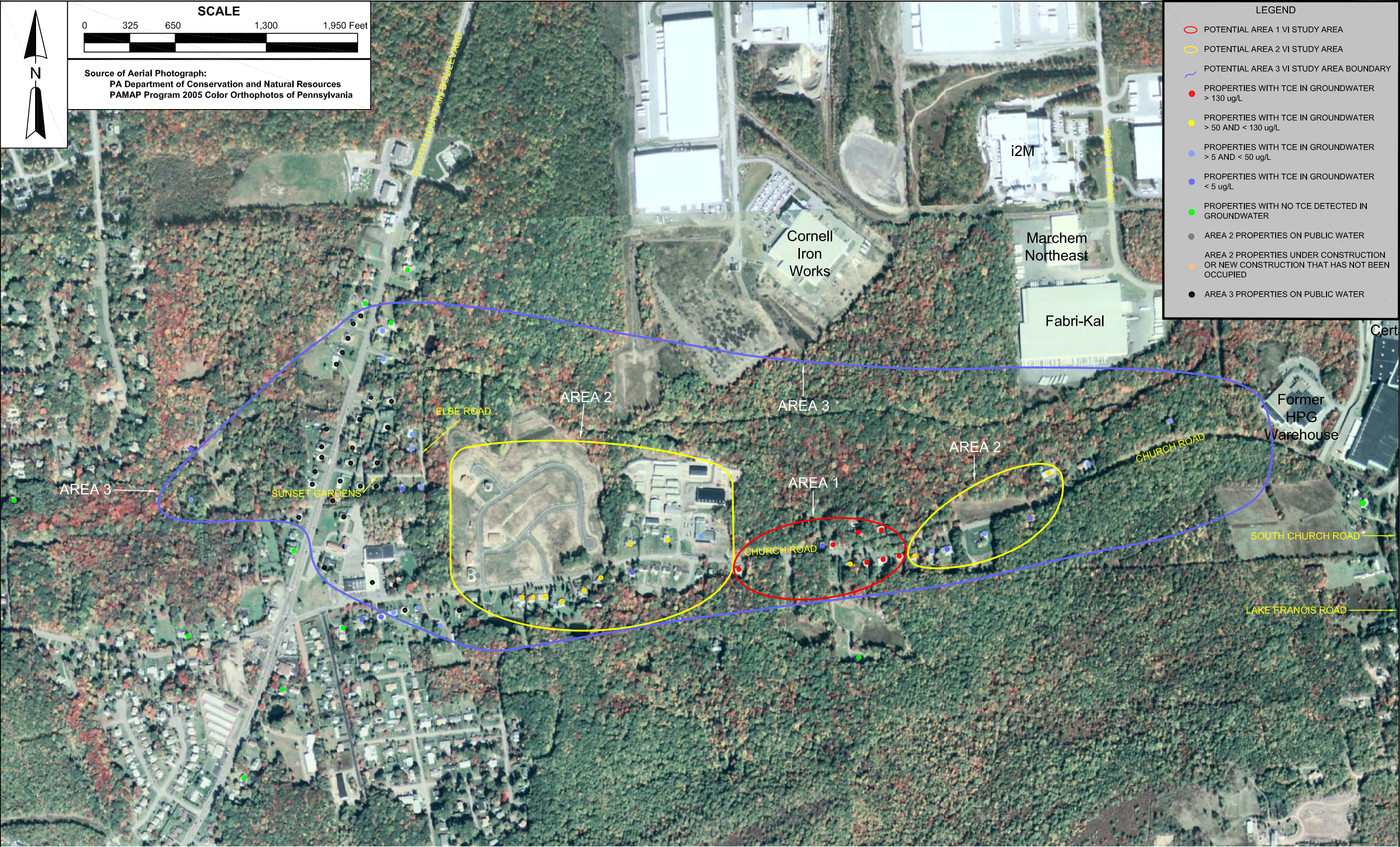


Figure 3-12
Geographic Area Evaluation
FWEC/Church Road TCE Site, Mountain Top, Pennsylvania





PROGRESS REPORT #82 (IRM OPERATING PHASE)

**FIGURE 4
Trichloroethylene (TCE) Concentrations in Groundwater**

